

ABSTRACT OF THE DISCLOSURE

In a cryptographic method and equipment and a decrypting method and equipment according to the invention, the auxiliary code depending upon a randomly determined numeric key and the result of encryption is included together with the result of encryption into a cryptogram. On decrypting, a cryptographic key is restored by using the numeric key restored according to the entire cryptogram and is utilized in the decryption. On the other hand, in another cryptographic method and equipment and another decrypting method and equipment according to the invention, on encrypting, physical characteristic information is scrambled and then encrypted. On this encryption, on the contrary, the result of decryption is descrambled. In these cryptographic method and equipment, together with decryption method and equipment, any small alteration made on the cryptogram causes a serious damage on the result of decryption. So, by applying these techniques to sending and receiving the physical characteristic information, their safety can be improved. On the other hand, in a remote identification system according to the invention, by encrypting the physical characteristic information by using a password as a cryptographic key, because of the fluctuation of the physical characteristic information, authenticating information represented as a different bit pattern at each identifying processing can be generated and sent to a transmission medium. So, by examining the equivalence between the result of decryption of the authenticating information and the registered reference information while considering the aforementioned fluctuation, the person can be reliably identified.